



SCHOOL OF COMPUTING AND ENGINEERING
BACHELOR OF SCIENCE AND COMPUTER SCIENCE
API ASSIGNMENT

DATE: **November 2023**

Time: **2 weeks**

You are required to apply the following functionalities to your drug application system.

Admin

1. The administrator should be able to add/edit a new drug category
2. The administrator should be able to add/edit a new user
3. The administrator should be able to add/edit a new drug and assign categories
4. The administrator should be able to generate tokens/ user access keys for API access

API User

1. The system should allow the API user to register
2. The system should be able to give an API user a general API access token (that has an expiry date) or an API key
3. The system should allow the API user to register for/ subscribe to specific API products
4. The system should be able to provide access to data for an authenticated API users accessing approved API paths

API

The developed API should be able to provide the following functionality via a secure format and insecure format. Secure format means that the API endpoint cannot be accessed unless one has already registered/ subscribed for the API product and has a token/ key.

Expected API endpoints. Results should be a JSON Object and/ or XML file with data

1. List of all users (secure endpoint)
 - a) List of all users
 - b) One user's details by email/ id
 - c) List of all users by gender
 - d) List of all users who purchased a specific drug, or item in a subcategory/ category
 - e) List of all users who purchased a drug on a specific date
 - f) List of all users by last login time
2. List of all products/ items (insecure endpoint)
 - a) List of all drugs
 - b) Drug information by id
 - c) List of all drugs by category/ subcategory
 - d) List of drugs by a user [secure endpoint]

API Documentation

- Select a tool to assist with API documentation
- Document your APIs

Submission of the Project

- Submit your project via eLearning Platform
- Create a video presentation, showing the different sections (Admin, API user, APIs, API documentation) and how you have implemented them.
- Ensure your video remains on showing your face, throughout the presentation.
- Upload video to eLearning platform by **Tuesday 28th November 2023, 8:00 AM**